## Major Coursework (25 Credits)

### Public Health Core (15 Credits)

- HPER-C 589 Social and Behavioral Determinants of Health (3 cr.)
- HPER-C 591 Public Health Statistics (3 cr.)
- HPER-V 512 Environmental Health Science (3 cr.)
- HPER-C 611 Epidemiology (3 cr.)
- HPER-C 510 Organization and Administration of Public Health Programs (3 cr.)

### Required (10 Credits)

- HPER-C 505 Public Health Foundations and Leadership (3 cr.)
- HPER-C 644 Field Experience in Public Health (5 cr.)
- HPER-C 650 MPH Culminating Experience (2 cr.)

## Concentration Coursework (18 Credits)

### Biostatistics

#### Required (9 Credits)

- HPER-T 691 Multivariate Statistical Analysis (3 cr.) \(P: \text{HPER-C 591}\)
- HPER-T 693 Experimental Analysis and Design (3 cr.) \(P: \text{HPER-C 591}. \text{Course is equivalent to STAT S502}\)
- HPER-T 695 Categorical Data Analysis (3 cr.) \(P: \text{HPER-C 591}. \text{Course is equivalent to STAT S503}\)

- \(--or--\) STAT-S 502 Statistical Methods IIa (3 cr.) \(P: \text{Permission of instructor}\)

- \(--or--\) STAT-S 503 Statistical Methods IIb: Generalized Linear Models and Categorical Data (3 cr.) \(P: \text{STAT 501 or one graduate course in statistics}\).

#### Electives (Complete 9 Credits from the Following Courses)

- HPER-T 641 Operational Research in Public Health (3 cr.) \(P: \text{HPER-C 591}\)
- STAT-S 626 Bayesian Theory and Data Analysis (3 cr.) \(P: \text{Two statistics courses at the graduate level, or consent of instructor}\).
- STAT-S 631 Applied Linear Models I (3 cr.) \(P: \text{STAT S520 and MATH M301 or M303 or S303 (or equivalent courses), or consent of instructor}\).
- STAT-S 632 Applied Linear Models II (3 cr.) \(P: \text{STAT S631, or consent of instructor}\).
- STAT-S 637 Categorical Data Analysis (3 cr.) \(P: \text{Two statistics courses at the graduate level, or consent of instructor}. \text{Course is equivalent to EDUC Y637}\).

Requirements continued on the next page
___ STAT-S 639  Multilevel Models (3 cr.)  
  P: Two statistics courses at the graduate level, or consent of instructor. Course is equivalent to EDUC Y639.

___ STAT-S 640  Multivariate Data Analysis (3 cr.)  
  P: Two statistics courses at the graduate level, or consent of the instructor. Course is equivalent to PSY P654.

___ STAT-S 655  Longitudinal Data Analysis (3 cr.)  
  P: Two statistics courses at the graduate level, or consent of the instructor. Course is equivalent to EDUC Y655.

___ STAT-S 660  Sampling (3 cr.)  
  P: Two statistics courses at the graduate level, or consent of the instructor.

___ STAT-S 670  Exploratory Data Analysis (3 cr.)  
  P: Two statistics courses at the graduate level, or consent of the instructor.

___ STAT-S 675  Statistical Learning and High-Dimensional Data Analysis (3 cr.)  
  P: STAT-S 640, or two statistics courses at the graduate level, or consent of the instructor.

___ STAT-S 690  Statistical Consulting (3 cr.)  
  P: Consent of instructor.